



## Environmental Laboratory Licensure Application

Laboratory Licensure and  
Certification  
250 N. 17<sup>th</sup> Avenue  
Phoenix, AZ 85007-3231  
602-364-0720  
FAX 602-364-0759

### Instructions

This application is for laboratories seeking licensure under the Arizona Environmental Laboratory Licensure Act, enacted as A.R.S. 36-495 through 36-495.16, and must be used for laboratory licensure under A.A.C. R9-14-601 et. seq.

A.R.S. 48-3644: Notice of prohibited acts by district and employees; enforcement notice.

B. Unless specifically authorized, a district shall avoid duplication of other laws or executive orders that do not enhance regulatory clarity and shall avoid dual permitting to the maximum extent practicable.

C. This section does not prohibit district flexibility to issue licenses or adopt ordinances or regulations.

D. A district shall not request or initiate discussions with a person about waiving that person's rights.

E. This section may be enforced in a private civil action and relief may be awarded against the district. The court shall award reasonable attorney fees, lost opportunity costs, delay costs, damages and all fees associated with the license application to a party that prevails in an action against the district for a violation of this section.

F. A district employee may not participate in a violation of this section.

**IT IS NOT NECESSARY TO RETURN THE INSTRUCTIONS ALONG WITH YOUR APPLICATION.**  
**PLEASE NOTE THAT THE APPLICATION FEE IS REQUIRED TO PROCESS YOUR APPLICATION.**

1. This application packet consists of:  
PART A Information on the Laboratory and Non-Refundable Application fees  
PART B Laboratory Personnel that sign final reports.  
PART C Fields of Testing  
PART D Laboratory Instrumentation/Equipment and Data Collection/Reduction Software  
PART E A list of Director Approved Methods and instructions for director approved methods.
2. Please **TYPE OR PRINT LEGIBLY** all information requested. Illegible information may result in a delay of the application process.
3. PART A – All sections must be completed. The application **MUST** be signed by the appropriate laboratory representatives (owner, as defined in Part A, and laboratory director) and **notarized**. Applicants with multiple laboratories (including mobiles) must complete and **notarize** separate applications for each laboratory. Original, **notarized** PART A sections must accompany all applications. **PHOTOCOPIES OR FACSIMILES OF PART A ARE NOT ACCEPTABLE.** Refer to A.R.S. 36.495.03.D, A.A.C. R9-14-601.7, and A.A.C. R9-14-603.A.22 & 23.
4. PART B – Complete this section for **EACH PERSON SIGNING FINAL REPORTS**.
5. PART C - Select from each type of matrix tested the analyte parameters and corresponding method(s) appropriate to the scope of the laboratory. Refer to A.A.C. R9-14-610.A for the approved method references. These fees are **non-refundable**. (FOR RENEWAL APPLICATIONS ONLY: Indicate **CHANGES** in the approved references and methods for **EACH** analyte and **HIGHLIGHT** any **ADDITION** or **DELETION**.)
6. PART D - Identify the instrumentation, laboratory equipment, and software available in the laboratory that will be used for the compliance testing and data collection/data reduction interpretation pertaining to this application. (FOR RENEWAL APPLICATIONS ONLY: Identify **CHANGES** in the instrumentation, laboratory equipment and software and indicate whether it is to be **ADDED** or **DELETED**.) You **will be billed** for every instrument/equipment listed. You **will not be billed** for the software listed. These fees will be included with the method (parameter) fees.

7. PART E – A list of Director Approved methods approved for use after the administrative rules were promulgated.
8. For an **initial application**:
  - a. A copy of a proficiency testing report for the state in which the laboratory is located (home state) or, if that state does not require proficiency testing, for another state in which the laboratory is licensed or certified, for the current or most recently completed year, for each of the parameters for which licensure is requested;
  - b. A list of the states in which the laboratory is licensed or certified and the corresponding license or certificate number for each state; and
  - c. A copy of a current quality assurance plan for the laboratory (this may be provided electronically in the form of pdf or word files);
  - d. A payment in the total amount of application, method, proficiency (\$130), and information update fees for out-of-state (\$126);
9. For a **renewal application**:
  - a. For each new parameter being requested on the application, a copy of a current standard operating procedure, limit of detection, and proficiency testing report (if available) should be included [Questions concerning this please call (602) 364-0720].
  - b. If the applicant is requesting to make payment in installments under A.A.C. R9-14-608 then they should provide an indication of this and a payment plan for the fees.
  - c. A payment in the total amount of application, method, proficiency, and information update fees.

A laboratory may submit only the pertinent pages of Parts C – E of the application along with a note stating that pages x through y are not being submitted. Part A and B should always be submitted. If you are not submitting all the pages, you must submit a note stating the pages not included or there may be a delay in processing your application.


10. Fees for any out-of-state travel will be computed by the Department of Health Services and will be billed to the laboratory. An out of state laboratory must post a bond with the department in the form of a check, in an amount sufficient to cover all on-site inspection and investigation costs incurred by the Department.
11. Photocopy PARTS A-E and retain for your information.
12. Return the **Original NOTARIZED application** and **NON-REFUNDABLE application fee** to:

ARIZONA DEPARTMENT OF HEALTH SERVICES  
State Laboratory Services  
Office of Laboratory Certification and Licensure – Environmental Licensure  
250 N. 17<sup>th</sup> Avenue  
Phoenix, AZ 85007-3231

13. THE LABORATORY **MUST** INFORM THE ENVIRONMENTAL LABORATORY LICENSURE PROGRAM, DEPARTMENT OF HEALTH SERVICES, **IN WRITING**, OF ANY CHANGES IN LABORATORY NAME, OWNERSHIP, DIRECTORSHIP, OR LOCATION OF THE LABORATORY PER A.A.C. R9-14-603.I WITHIN **20 BUSINESS DAYS AFTER THE CHANGE BY SUBMITTING A NEW, NOTARIZED PART A. NOTIFICATION ON COMPANY LETTERHEAD (without a new PART A) IS NOT ACCEPTABLE.**

#### **PROPRIETARY INFORMATION NOTIFICATION**

Information in this application, with the exception of alternate methods approved by ADHS and USEPA, is not considered a trade secret and may be released without review by the Department in accordance with the Public Records Act.

	<b>Environmental Laboratory Licensure Application</b>	<b>Laboratory Licensure and Certification</b>
	<b>PART A - Laboratory Information</b>	250 N. 17 <sup>th</sup> Avenue Phoenix, AZ 85007-3231 602-364-0720 FAX 602-364-0759

THIS FORM IS TO BE USED FOR **FIXED** AS WELL AS **MOBILE** LABORATORIES

**ALL SECTIONS OF PART A MUST BE COMPLETED PRIOR TO SUBMITTAL**

A.R.S. 48-3644: Notice of prohibited acts by district and employees; enforcement notice.

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E. This section may be enforced in a private civil action and relief may be awarded against the district. The court shall award reasonable attorney fees, lost opportunity costs, delay costs, damages and all fees associated with the license application to a party that prevails in an action against the district for a violation of this section.

F. A district employee may not participate in a violation of this section.

**NON-REFUNDABLE APPLICATION FEES - CIRCLE APPLICABLE FEE**

Category	Description	Non-Refundable Fee
Single Laboratory classification application fee:		
LEVEL I	A license for compliance testing is limited to 1 to 9 total parameters in any combination of categories of laboratory testing.	\$1677.00
LEVEL II	A license for compliance testing is limited to 10 to 17 total parameters in any combination of categories of laboratory testing.	\$2130.00
LEVEL III	A license for compliance testing for greater than 17 total parameters in any combination of categories of laboratory testing.	\$2348.00
Multiple laboratories applying under the single license option (A.A.C. R9-14-603.): (Available for FIXED and MOBILE ARIZONA BASED Laboratories only.)		
LEVEL I	Each Laboratory	\$1442.00
LEVEL II	Each Laboratory	\$1895.00
LEVEL III	Each Laboratory	\$2130.00
Additional Required Fees	Proficiency Evaluation Fee – All laboratories	\$130
	Information Update Fee – Out-of State Laboratories	\$126

AZ # (If known): \_\_\_\_\_

USEPA #: \_\_\_\_\_

NAME OF LABORATORY: \_\_\_\_\_

DIVISION: \_\_\_\_\_

LABORATORY LOCATION: (Actual location)

Street: \_\_\_\_\_

City: \_\_\_\_\_

County: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Telephone: \_\_\_\_\_ FAX Number: \_\_\_\_\_

E-mail address: \_\_\_\_\_

MAILING ADDRESS:

Street: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**AS REQUIRED BY A.A.C. R9-14-603.A.6&7, PLEASE PROVIDE A LIST OF ALL PERSONS, AND BUSINESS ENTITIES, SUCH AS CORPORATIONS OR PARTNERSHIPS, WHICH HAVE AN OWNERSHIP INTEREST IN THE LABORATORY. INCLUDE THE ADDRESS AND TELEPHONE NUMBER FOR EACH PERSON AND ENTITY LISTED. FOR EACH BUSINESS ENTITY LISTED ABOVE, PROVIDE A LIST OF OFFICERS AND PRINCIPALS FOR EACH ENTITY, AND THE STATUTORY AGENT FOR SERVICE OF PROCESS. ATTACH ANOTHER SHEET IF DESIRED.**

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Statutory Agent (If applicable): \_\_\_\_\_

Laboratory Director: \_\_\_\_\_

**LABORATORY CATEGORY:**

☐ Governmental

☐ Commercial (for profit)

☐ Company (internal work only)

☐ Other (specify): \_\_\_\_\_

**IS THIS LABORATORY A MOBILE LABORATORY?** ☐ Yes ☐ No

If yes, please complete:

Vehicle Make: \_\_\_\_\_ Arizona Vehicle License No.: \_\_\_\_\_

Vehicle ID No.: \_\_\_\_\_

Is this mobile laboratory affiliated with a nonmobile laboratory? ☐ Yes ☐ No

If yes, please complete the following:

Name of Nonmobile Laboratory: \_\_\_\_\_

Please select the option that appropriately represents your laboratory organization. As per A.R.S. 36.495.03.D, A.A.C. R9-14-603.A.22 & 23, the laboratory is required to submit two different names, one for laboratory director and one for owner as defined below. Exceptions are where the owner is the laboratory director.

- ☐ A. If the owner is an individual, the individual;
- ☐ B. If the owner is a corporation, an officer of the corporation;
- ☐ C. If the owner is a partnership, one of the partners;
- ☐ D. If the owner is a limited liability company, a manager or, if the limited liability company does not have a manager, a member of the limited liability company;
- ☐ E. If the owner is an association or cooperative, a member of the governing board of association or cooperative;
- ☐ F. If the owner is a joint venture, one of the individuals signing the joint venture agreement;
- ☐ G. If the owner is a governmental agency, the individual in the senior leadership position with the agency or an individual designated in writing by the individual; or
- ☐ H. If the owner is a business organization type other than those described in subsections (A)(23)(b) through (f), an individual who is a member of the business organization.

I hereby make application for a license. I am aware of all applicable requirements in A.R.S. Title 36, Chapter 4.3 and Article 6 and that the information contained in this application, including supplemental pages, is to the best of my knowledge and belief, true and complete.

Printed Name	Signature of Owner/Officer/Partner	Date
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Printed Name	Signature of Second Owner/Officer/Partner (If applicable)	Date
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Printed Name	Signature of Laboratory Director	Date
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STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_

By \_\_\_\_\_

NOTARY PUBLIC \_\_\_\_\_

	<b>Environmental Laboratory Licensure Application</b>	<b>Laboratory Licensure and Certification</b>
	<b>PART B - Laboratory Personnel</b>	<b>250 N. 17<sup>th</sup> Avenue Phoenix, AZ 85007 602-364-0728 FAX 602-364-0759</b>

Part B **MUST** be completed for all persons signing final reports. If necessary, please make photocopies of this form and provide the information for additional signatory personnel.

<b>PRINT</b> <b>NAME:</b> _____ First _____ MI _____ Last _____	<b>SIGNATURE</b> <b>NAME:</b> _____
<input type="checkbox"/> Director _____ <input type="checkbox"/> QA/QC _____ <input type="checkbox"/> Supervisor of _____ <input type="checkbox"/> Other _____	
<b>EDUCATION:</b> College/University _____ Major _____ Degree _____ _____ _____ _____	

<b>PRINT</b> <b>NAME:</b> _____ First _____ MI _____ Last _____	<b>SIGNATURE</b> <b>NAME:</b> _____
<input type="checkbox"/> Director _____ <input type="checkbox"/> QA/QC _____ <input type="checkbox"/> Supervisor of _____ <input type="checkbox"/> Other _____	
<b>EDUCATION:</b> College/University _____ Major _____ Degree _____ _____ _____ _____	





## Environmental Laboratory Licensure Application

### Laboratory Licensure and Certification

250 N. 17<sup>th</sup> Avenue  
Phoenix, AZ  
85007-3231  
602-364-0720  
FAX 602-364-0759

### PART C - Fields of Testing

#### INSTRUCTIONS

Each matrix is listed with the analyte parameters and their approved testing methods presented on the following pages. Select from each type of matrix tested the analyte parameters and corresponding method(s) appropriate to the scope of the laboratory. When selecting Fields of Testing, note the following general guidelines:

Reporting of data to demonstrate compliance for purposes of the U.S. or Arizona Safe Drinking Water Act requires licensure in the **Drinking Water sample matrix**;

Reporting of data to demonstrate compliance under the National Pollutant Discharge Elimination System or a State Wastewater Reuse permit requires licensure in the **Wastewater matrix**;

Reporting of data to demonstrate compliance with provisions of the Hazardous Waste Control requires licensure in the **Solid Waste matrix**;

Reporting of data to demonstrate compliance with provisions of the Arizona Aquifer Protection license program may require accreditation in **both the Drinking Water and Wastewater matrix**.

#### **Required Fees:**

**Proficiency Evaluation Fee**            **\$130**    All licensed laboratories must submit this fee with application  
**Information Update Fee**            **\$126**    All out-of-state laboratories must submit this fee with application

Circle all methods to be used for each analyte desired. Approved method references may be found in A.A.C. R9-14-610.A. For the use of non-referenced methods, equivalency studies need to be completed and approved prior to use of the method – see Part E. A listing of approved methods may be found in A.A.C. R9-14-611 thru 614 and in:

Section A -- Drinking Water methods (Pages 9 - 22)

Federal Register 40/CFR; Part 141;

Section B -- Wastewater methods (Pages 23 - 32 )

Federal Register, 40/CFR, Part 136;

Section C -- Solid Waste methods (Pages 33 - 41)

SW-846, USEPA.

Section D -- Ambient air primary and secondary pollutants (Pages 41 - 44)

Federal Register, 40/CFR, Part 50, 60, 61;

Use additional space as necessary to list additional analytes or method references.

## SECTION A. DRINKING WATER PARAMETERS

### 1. Microbiology of Drinking Water

Description	Reference	Method/s	Fee Per Method
Aeromonas	Z1	1605	\$228
Coliforms, Fecal	C2	9221E	\$228
		9222D	\$228
	C1	Hach 8001	\$228
Coliforms, Total and <i>E. coli</i> , by Colilert	C2	9223B	\$152
Coliforms, Total and <i>E. coli</i> , by Colisure	C2	9223B	\$152
Coliforms, Total, by Membrane Filtration	C2	9222B	\$228
		9222C	\$228
Coliforms, Total and <i>E. coli</i> , by Membrane Filtration	Z8	1604	\$228
Coliforms, Total, by Multiple Tube Fermentation	C2	9221B and C	\$228
	C1	Hach 8001	\$228
Coliforms, Total, by Presence/Absence	C2	9221D	\$228
<i>Escherichia coli</i>	X	Tube Procedure	\$228
		Membrane Filter Procedure	\$228
<i>Cryptosporidium</i>	P4	1622	\$381
<i>Giardia</i> and <i>Cryptosporidium</i>	P5	1623	\$381
Heterotrophic Plate Count	C2	9215B	\$152
	Z4	SimPlate	\$152
Microscopic Particulate Analysis	P1	910/9-92-029	\$228
Viruses	P2	600/R-95/178	\$381

### 2. Inorganic Chemistry and Physical Properties of Drinking Water

Description	Reference	Method/s	Fee Per Method
Alkalinity	C2	2320B	\$19
Asbestos	H1	100.1	\$503
	H2	100.2	\$503
Bromate	A6	317	\$76
	A7	326	\$76
	Z	300.1	\$26
		321.8	\$152
Bromide	A2	300	\$26

	A6	317	\$76
	A7	326	\$76
	Z	300.1	\$26
Calcium	A1	200.7	\$10
	C	3111B	\$26
		3500-Ca D	\$76
Carbon, Dissolved Organic	A9	415.3	\$76
	C2	5310B	\$39
		5310C	\$39
		5310D	\$39
Carbon, Total Organic	A9	415.3	\$76
	C2	5310B	\$39
		5310C	\$39
		5310D	\$39
Chloride	A2	300	\$26
	C2	4500-Cl B	\$39
		4500-Cl D	\$39
		4110B	\$26
Chloramine	C2	4500-Cl D	\$39
		4500-Cl F	\$39
		4500-Cl G	\$76
Chlorine	C2	4500-Cl D	\$39
		4500-Cl E	\$39
		4500-Cl F	\$39
		4500-Cl G	\$39
		4500-Cl H	\$39
		4500-Cl I	\$39
	C1	Hach 8168	\$39
		Hach 8167	\$39
		Hach 8370	\$39
		Hach 8021	\$39
Chlorine Dioxide	A8	327	\$76
	C2	4500-ClO <sub>2</sub> C	\$39
		4500-ClO <sub>2</sub> D	\$76
		4500-ClO <sub>2</sub> E	\$39
Chlorite	A2	300	\$26
	A6	317	\$76
	A7	326	\$76
	A8	327	\$76
	Z	300.1	\$26
Color	C2	2120B	\$32
Corrosivity	C2	2330B	\$39
Cyanide	A2	335.4	\$76

	C2	4500-CN B	\$7
		4500-CN C	\$13
		4500-CN E	\$76
		4500-CN F	\$76
	Z9	QuikChem 10-204-00-1-X	\$76
Cyanide, Amenable	C2	4500-CN G	\$76
Fluoride	A2	300	\$26
	A3	380-75WE	\$39
	C2	4500-F B	\$39
		4500-F C	\$26
		4500-F D	\$39
		4500-F E	\$39
		4110B	\$26
	C1	Hach 8029	\$39
Hardness	A1	200.7, Sum of Ca and Mg as their carbonates	\$10
	C2	2340 B, Sum of Ca and Mg as their carbonates	\$10
		2340 C	\$39
Magnesium	A1	200.7	\$10
	C	3111B	\$26
Methylene Blue Active Substances	C2	5540 C	\$39
Nitrate	A2	353.2	\$76
		300	\$26
	C2	4500-NO <sub>3</sub> D	\$39
		4500-NO <sub>3</sub> E	\$76
		4500-NO <sub>3</sub> F	\$76
		4110B	\$26
Nitrite	A2	353.2	\$76
		300	\$26
	C2	4500-NO <sub>2</sub> B	\$76
		4500-NO <sub>3</sub> E	\$76
		4500-NO <sub>3</sub> F	\$76
		4110B	\$26
Odor	C2	2150B	\$32
Orthophosphate	A2	365.1	\$76
		300	\$26
	C2	4500-P E	\$76
		4500-P F	\$76
		4110B	\$26
Ozone	C	4500-O <sub>3</sub> B	\$39

Perchlorate	Z	314	\$76
		314.1	\$76
		331	\$152
		332	\$152
pH (Hydrogen Ion)	A	150.1	\$39
		150.2	\$39
	C2	4500-H B	\$39
	C1	Hach 8156	\$39
Residue, Filterable (TDS)	C2	2540 C	\$39
Sediment Concentration	Z6	D 3977-979	\$13
Silica	A1	200.7	\$10
	C2	4500-Si C	\$76
		4500-Si D	\$76
		4500-Si E	\$76
Sodium	A1	200.7	\$10
	C	3111B	\$26
Specific Conductance	C2	2510B	\$39
	C1	Hach 8160	\$39
Sulfate	A2	300	\$26
		375.2	\$76
	C2	4500-SO <sub>4</sub> C	\$76
		4500-SO <sub>4</sub> D	\$76
		4500-SO <sub>4</sub> E	\$76
		4500-SO <sub>4</sub> F	\$76
		4110B	\$26
Temperature, Degrees Celsius	C2	2550	\$13
Turbidity, Nephelometric (NTU)	A2	180.1	\$39
	C2	2130B	\$39
UV-Absorbing Organic Constituents	C2	5910B	\$76

### 3. Metals in Drinking Water

#### a. Sample Preparation for Metals in Drinking Water

Description	Reference	Method/s	Fee Per Method
Acid Extractable Metals	C	3030C	\$7
Microwave Assisted Digestion	C	3030K	\$7
Nitric Acid	C	3030E	\$7
Nitric Acid/Hydrochloric Acid	C	3030F	\$7
Nitric Acid/Perchloric Acid	C	3030H	\$7
Nitric Acid/Perchloric Acid/Hydrofluoric Acid	C	3030I	\$7
Nitric Acid/Sulfuric Acid	C	3030G	\$7

Preliminary Filtration	C	3030B	\$7
<b>b. Methods to Analyze Metals in Drinking Water</b>			
<b>Description</b>	<b>Reference</b>	<b>Method/s</b>	<b>Fee Per Method</b>
Aluminum	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3111D	\$26
		3113B	\$26
Antimony	A1	200.8	\$26
		200.9	\$26
	C	3113B	\$26
Arsenic	A1	200.8	\$26
		200.9	\$26
	C	3113B	\$26
		3114B	\$76
Barium	A1	200.7	\$10
		200.8	\$26
	C	3111D	\$26
		3113B	\$26
Beryllium	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3113B	\$26
Cadmium	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3113B	\$26
Chromium, Total	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3113B	\$26
Copper	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3111B	\$26
		3113B	\$26
Iron	A1	200.7	\$10
		200.9	\$26
	C	3111B	\$26
		3113B	\$26
Lead	A1	200.8	\$26
		200.9	\$26
	C	3113B	\$26

Manganese	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3111B	\$26
		3113B	\$26
Mercury	A	245.2	\$52
	A1	245.1	\$52
		200.8	\$26
	C	3112B	\$52
Nickel	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3111B	\$26
		3113B	\$26
Selenium	A1	200.8	\$26
		200.9	\$26
	C	3113B	\$26
		3114B	\$76
Silver	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3111B	\$26
		3113B	\$26
Strontium	A1	200.7	\$10
	C	3500-Sr B	\$26
		3500-Sr C	\$20
		3500-Sr D	\$26
Thallium	A1	200.8	\$26
		200.9	\$26
Uranium	A1	200.8	\$26
Zinc	A1	200.7	\$10
		200.8	\$26
	C	3111B	\$26

#### 4. Organic Chemistry of Drinking Water

##### a. Methods to Comply with National Primary Drinking Water Regulations

Description	Reference	Method/s	Fee Per Method
Disinfectant Byproducts, Solvents and Pesticides: Alachlor Atrazine Dibromochloropropane Endrin Ethylene dibromide Heptachlor	D3	551.1 (1.0)	\$116

Heptachlorepoide Hexachlorobenzene Hexachlorocyclopentadiene Lindane Methoxychlor Simazine 1,1,2-Trichloroethane Trichloroethylene 1,1,1-Trichloroethane Tetrachloroethylene Carbontetrachloride Chloroform Bromodichloromethane Dibromochloromethane Bromoform Total Trihalomethanes			
VOCs by GC: Benzene Carbon Tetrachloride (mono) Chlorobenzene o-Dichlorobenzene para-Dichlorobenzene 1,2-Dichloroethane cis-1,2-Dichloroethylene Trans-1,2-Dichloroethylene Dichloromethane 1,2-Dichloropropane Ethylbenzene Styrene Tetrachloroethylene 1,1,1-Trichloroethane Trichloroethylene Toluene 1,2,4-Trichlorobenzene 1,1-Dichloroethylene 1,1,2-Trichloroethane Vinyl chloride Xylenes, Total Chloroform Bromodichloromethane Dibromochloromethane Bromoform Total Trihalomethanes	D3	502.2 (2.1)	\$152
VOCs by GC-MS: Benzene Carbon Tetrachloride (mono) Chlorobenzene o-Dichlorobenzene	D3	524.2 (4.1)	\$152



para-Dichlorobenzene 1,2-Dichloroethane cis-1,2-Dichloroethylene Trans-1,2-Dichloroethylene Dichloromethane 1,2-Dichloropropane Ethylbenzene Styrene Tetrachloroethylene 1,1,1-Trichloroethane Trichloroethylene Toluene 1,2,4-Trichlorobenzene 1,1 Dichloroethylene 1,1,2-Trichloroethane Vinyl Chloride Xylenes, Total Chloroform Bromodichloromethane Dibromochloromethane Bromoform Total Trihalomethanes			
EDB/DBCP	D3	504.1 (1.1)	\$116
Pesticides and PCBs by GC (Microextraction):  Alachlor Atrazine Chlorodane Endrin Heptachlor Heptachlor Epoxide Hexachlorobenzene Hexachlorocyclopentadiene Lindane Methoxychlor Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Simazine Toxaphene	D3	505 (2.1)	\$152
Phthalate and Adipate Esters by GC-PID:  Di (2-ethylhexyl)adipate Di (2-ethylhexyl)phthalate	D3	506 (1.1)	\$116

Pesticides by GC-NPD Atrazine Alachlor Simazine	D3	507 (2.1)	\$116
Chlorinated Pesticides by GC-ECD: Chlordane Endrin Heptachlor Heptachlor Epoxide Hexachlorobenzene Hexachlorocyclopentadiene Lindane Methoxychlor Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Toxaphene	D3	508 (3.1)	\$152
Chlorinated Pesticides, Herbicides, Organohalides by GC-ECD:  Alachlor Atrazine Chlorodane Endrin Heptachlor Heptachlor Epoxide Hexachlorobenzene Hexachlorocyclopentadiene Lindane Methoxychlor Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Simazine Toxaphene	D3	508.1(2.0)	\$152
Organics by GC-MS: Alachlor Atrazine Benzo(a)pyrene	D3	525.2 (2.0)	\$152

Chlorodane Di (2-ethylhexyl)adipate Di (2-ethylhexyl)phthalate Endrin Heptachlor Heptachlor Epoxide Hexachlorobenzene Hexachlorocyclopentadiene Lindane Methoxychlor Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Pentachlorophenol Simazine Toxaphene			
Carbamates by HPLC/Post Column:	D3	531.1 (3.1)	\$116
Carbofuran			
Oxamyl	D7	531.2	\$116
Chlorinated Acids and Dalapon by GC-ECD:	D	515.1 (4.0)	\$116
2,4-D			
Dalapon			
Dinoseb			
Pentachlorophenol			
Picloram	D6	515.3 (1.0)	\$116
Silvex (2,4,5-TP)	D8	515.4 (1.0)	\$116
Chlorinated Acids By GC-ECD	D3	515.2 (1.1)	\$116
2,4-D			
Dinoseb			
Pentachlorophenol			
Picloram			
Silvex (2,4,5-TP)			
PAHs By HPLC/UV/FL:	D1	550	\$116
Benzo(a)pyrene		550.1	\$116
Haloacetic Acids and Dalapon by GC-ECD:	D2	552.1 (1.0)	\$116
Dalapon			
Monochloroacetic Acid			
Dichloroacetic Acid			
Trichloroacetic Acid			
Monobromoacetic Acid			

Dibromoacetic Acid HAA5	D3	552.2 (1.0)	\$116
Haloacetic Acids: Monochloroacetic Acid Dichloroacetic Acid Trichloroacetic Acid Monobromoacetic Acid Dibromoacetic Acid HAA5	D13	552.3	\$116
Disinfection Byproducts by Micro Liquid-Liquid Extraction/GC-ECD	C2	6251B	\$116
Chlorinated Acids By HPLC/PDA/UV:  2,4-D Dinoseb Pentachlorophenol Picloram Silvex (2,4,5-TP)	D2	555 (1.0)	\$116
Dioxin	E	1613	\$258
Diquat	D5	549.2 (1.0)	\$116
Endothall	D2	548.1 (1.0)	\$116
Glyphosate	D1	547	\$116
PCBs (as decachlorobiphenyl )	D	508A (1.0)	\$152
<b>b. Additional Methods and Compounds Required by Other Programs</b>			
<b>Description</b>	<b>Reference</b>	<b>Method/s</b>	<b>Fee Per Method</b>
Disinfectant Byproducts, Solvents and Pesticides	D3	551.1 (1.0)	\$26
VOCs by GC	D3	502.2 (2.1)	\$26
VOCs by GC-MS	D3	524.2 (4.1)	\$26
EDB/DBCP	D3	504.1 (1.1)	\$26
Pesticides and PCBs by GC (Microextraction)	D3	505 (2.1)	\$26
Phthalate and Adipate Esters by GC-PID	D3	506 (1.1)	\$26
Pesticides by GC-NPD	D3	507 (2.1)	\$26
Chlorinated Pesticides by GC-ECD	D3	508 (3.1)	\$26
Chlorinated Pesticides, Herbicides, Organohalides by GC-ECD	D3	508.1(2.0)	\$26
Organics by GC-MS	D3	525.2 (2.0)	\$26
Carbamates by HPLC/Post Column	D3	531.1 (3.1)	\$26
	D7	531.2	\$26

Chlorinated Acids and Dalapon by GC-ECD	D	515.1 (4.0)	\$26
	D6	515.3 (1.0)	\$26
	D8	515.4 (1.0)	\$26
Chlorinated Acids By GC-ECD	D3	515.2 (1.1)	\$26
PAHs By HPLC/UV/FL	D1	550	\$26
		550.1	\$26
Haloacetic Acids and Dalapon by GC-ECD	D2	552.1 (1.0)	\$26
	D3	552.2 (1.0)	\$26
Chlorinated Acids By HPLC/PDA/UV	D2	555 (1.0)	\$26
Dioxins and Furans	E	1613	\$65
Diquat and Paraquat	D5	549.2 (1.0)	\$26
Benzidines and Nitrogen Compounds	D2	553 (1.1)	\$116
Carbonyl Compounds	D2	554 (1.0)	\$116
Phenols	Z	528	\$152
Phenylurea Compounds	Z	532	\$116
Selected Semivolatiles	Z	526	\$152
Pesticides and Flame Retardants by GCMS	D9	527	\$152
Explosives and Related Compounds	D10	529	\$152
Acetanilide Degradation Products	D11	535 (1.1)	\$194
Acetanilide Parent Compound	D3	525.2 (2.0)	\$26
Nitrosamines by MS/MS	D12	521	\$194
<b>5. Radiochemistry of Drinking Water</b>			
<b>Description</b>	<b>Reference</b>	<b>Method/s</b>	<b>Fee Per Method</b>
Cesium	B	Cesium-134	\$206
	C2	7500-Cs B	\$206
		7120	\$206
	J1	R-1110-76	\$206
		R-1111-76	\$206
	L	901	\$206
		901.1	\$206
	U	4.5.2.3	\$206
	W	Gamma Spectra	\$206
Gamma Emitting Isotopes	C2	7500-Cs B	\$206

		7500-I B	\$206
		7120	\$206
	L	901.1	\$206
		901	\$206
		902	\$206
	W	Gamma Spectra	\$206
Gross Alpha	B	Gross Alpha	\$206
	C2	7110B	\$206
		7110C	\$206
	J1	R-1120-76	\$206
	L	900	\$206
	V	00-01	\$206
		00-02	\$206
	W	Gross Alpha	\$206
Gross Beta	B	Gross Beta	\$206
	C2	7110B	\$206
	J1	R-1120-76	\$206
	L	900	\$206
	V	00-01	\$206
	W	Gross Beta	\$206
Iodine	B	Precipitation Method, Distillation Method	\$206
	C2	7500-I B	\$206
		7500-I C	\$206
		7500-I D	\$206
		7120	\$206
	L	902	\$206
		901.1	\$206
	U	4.5.2.3	\$206
	W	Gamma Spectra	\$206
Radium 226	B	Radon Emanation, Precipitation Method	\$206
	C2	7500-Ra B	\$206
		7500-Ra C	\$206
	J1	R-1140-76	\$206
		R-1141-76	\$206
	L	903	\$206
		903.1	\$206
	U	Ra-05	\$206
	V	Ra-03	\$206
		Ra-04	\$206
	W	Radium 226	\$206
Radium 228	B	Radium 228	\$206
	C2	7500-Ra D	\$206

	J1	R-1142-76	\$206
	L	904	\$206
	V	Ra-05	\$206
	W	Radium 228	\$206
Strontium	B	Strontium	\$206
	C2	7500-Sr B	\$206
	J1	R-1160-76	\$206
	L	905	\$206
	U	Sr-01	\$206
		Sr-02	\$206
	V	Sr-04	\$206
	W	Strontium	\$206
Tritium	B	Tritium	\$206
	C2	7500- <sup>3</sup> H B	\$206
	J1	R-1171-76	\$206
	L	906	\$206
	V	H-02	\$206
	W	Tritium	\$206
Uranium	C2	7500-U B	\$206
	I	D5174-91	\$206
	J1	R-1180-76	\$206
		R-1181-76	\$206
		R-1182-76	\$206
	L	908	\$206
		908.1	\$206
	U	U-02	\$206
		U-04	\$206
	V	00-07	\$206
	W	Uranium	\$206

## SECTION B. WASTEWATER PARAMETERS

### 1. Microbiology of Wastewater

Description	Reference	Method/s	Fee Per Method
<i>Ascaris lumbricoides</i>	C2	10550	\$228
	P3	UofA2000	\$228
Coliforms, Fecal, by Membrane Filter	C2	9222D	\$228
Coliforms, Fecal, by Multiple Tube Fermentation (may be used for sludge)	C2	9221E	\$228
Coliforms, Total, by Membrane Filter	C2	9222B	\$228

Coliforms, Total, by Multiple Tube Fermentation	C2	9221B	\$228
<i>Entamoeba histolytica</i>	C2	10550	\$228
	C	9711C	\$228
Enteric viruses	I	D4994-89	\$381
<i>Escherichia coli</i> by Colilert MPN	C2	9223B	\$152
<i>Escherichia coli</i> ( Not for NPDES) in conjunction with SM 9221B and 9221C	C2	9221F	\$152
<i>Giardia</i> and <i>Cryptosporidium</i>	C2	9711B	\$381
	P2	600/R-95/178	\$381
<i>Helminth Ova</i> in sludge	Z5	600/1-87-014	\$381
<i>Salmonella</i> in sludge	C2	9260D	\$228
Streptococcus, Fecal, by Membrane Filter	C2	9230C	\$194
Streptococcus, Fecal, by Multiple Tube Fermentation	C2	9230B	\$194
Tapeworm, Common	C2	10550	\$228
Viruses	C2	9510	\$381
	P	Methods for Virology	\$381
	P2	600/R-95/178	\$381
<b>2. Wastewater Inorganic Chemistry, Nutrients and Demand</b>			
<b>Description</b>	<b>Reference</b>	<b>Method/s</b>	<b>Fee Per Method</b>
Acidity	C2	2310B	\$39
	C1	Hach 8010	\$39
Alkalinity, Total	A	310.2	\$19
	C2	2320B	\$19
Ammonia	A2	350.1	\$39
	C2	4500-NH <sub>3</sub> B	\$39
		4500-NH <sub>3</sub> C	\$39
		4500-NH <sub>3</sub> D	\$39
		4500-NH <sub>3</sub> E	\$39
		4500-NH <sub>3</sub> G	\$39
	C1	Hach 8038	\$39
Biochemical Oxygen Demand	C2	5210B	\$152
	C1	Hach 8043	\$152
Boron	A1	200.7	\$10



	C2	4500-B B	\$76
Bromide	A2	300	\$26
Calcium	A1	200.7	\$10
	C	3111B	\$26
		3500-Ca D	\$39
	C1	Hach 8222	\$39
Carbon, Total Organic (TOC)	C2	5310 B	\$39
		5310 C	\$39
		5310D	\$39
Chemical Oxygen Demand	A	410.3	\$39
	A2	410.4	\$76
	C2	5220 C	\$39
		5220 D	\$76
	C1	Hach 8000	\$39
		Hach 8230	\$39
Chloride	A2	300	\$26
	C2	4500-Cl B	\$39
		4500-Cl C	\$39
		4500-Cl E	\$39
	C1	Hach 8225	\$39
Chlorine, Free	C1	Hach 8021	\$39
Chlorine, Total Residual	C2	4500-Cl B	\$39
		4500-Cl C	\$39
		4500-Cl D	\$39
		4500-Cl F	\$39
		4500-Cl G	\$39
	C1	Hach 8167	\$39
		Hach 8168	\$39
		Hach 10014	\$39
Color	C2	2120 B	\$32
		2120 C	\$32
		2120 E	\$32
Cyanide, Amenable to Chlorination	C2	4500-CN G	\$76
Cyanide, Available	Y	OIA-1677	\$76
Cyanide, Total	C2	4500-CN C and either (a) 4500-CN D, or (b) 4500-CN E	\$89
Fluoride	A2	300	\$26
	C2	4500-F B	\$39
		4500-F D	\$39
		4500-F E	\$39
	C1	Hach 8029	\$39

Hardness	A	130.1	\$10
	A1	200.7	\$10
	C2	2340B	\$39
		2340C	\$39
	C1	Hach 8226	\$39
Kjeldahl, Total Nitrogen	A	351.1	\$76
	A2	351.2	\$76
	C2	Combination of 4500-NH <sub>3</sub> B and either (a) 4500-N <sub>org</sub> B or (b) 4500-N <sub>org</sub> C	\$115
		4500-NH <sub>3</sub> C	\$39
	Z10	PAI-DK01	\$76
	Z11	PAI-DK02	\$76
	Z12	PAI-DK03	\$76
Methylene Blue Active Substances	C2	5540C	\$39
Nitrate (as N)	A	352.1	\$76
	A2	300	\$26
Nitrate-Nitrite (as N)	A2	300	\$26
		353.2	\$76
	C2	4500-NO <sub>3</sub> E	\$76
		4500-NO <sub>3</sub> F	\$76
		4500-NO <sub>3</sub> H	\$76
Nitrite (as N)	A2	300	\$26
	C2	4500-NO <sub>2</sub> B	\$76
	C1	Hach 8507	\$76
Oil and Grease and Total Petroleum Hydrocarbons	C2	5520B	\$76
	K1	1664A	\$76
Orthophosphate	A	365.3	\$76
	A2	300	\$26
		365.1	\$76
	C2	4500-P E	\$76
		4500-P F	\$76
	C1	Hach 8048	\$39
Oxygen-consumption Rate (SOUR)	C2	2710B	\$39
Oxygen, Dissolved	C2	4500-O C	\$26
		4500-O G	\$26
	C1	Hach 8229	\$26

pH (Hydrogen Ion)	C2	4500-H B	\$39
	C1	Hach 8156	\$39
Phenols	A	420.1	\$116
	C1	Hach 8047	\$116
Phosphorus, Total	A	365.3	\$76
		365.4	\$76
	A2	365.1	\$76
	C2	4500-P B	\$76
		4500-P E	\$76
		4500-P F	\$76
	C1	Hach 8190	\$76
Potassium	A1	200.7	\$10
	C	3111B	\$26
		3500-K D	\$26
Residue, Filterable (TDS)	C2	2540C	\$39
Residue, Nonfilterable (TSS)	C2	2540D	\$39
	C1	Hach 8158	\$39
Residue, Settable Solids	C2	2540F	\$39
Residue, Total	C2	2540B	\$39
Residue, Volatile	A	160.4	\$39
Silica, Dissolved	A1	200.7	\$10
	C	4500-Si D	\$76
	C2	4500-SiO <sub>2</sub> C	\$76
Sodium	A1	200.7	\$10
	C	3111B	\$26
Sodium Azide	C2	4110C	\$76
Specific Conductance	A	120.1	\$39
	C2	2510B	\$39
	C1	Hach 8160	\$39
Sulfate	A	375.1	\$76
	A2	300	\$26
	C2	4500-SO <sub>4</sub> C	\$76
		4500-SO <sub>4</sub> D	\$76
	C1	Hach 8051	\$39
Sulfide (includes total and soluble)	C2	4500-S D	\$76
		4500-S F	\$39
	C1	Hach 8131	\$39
Sulfite	C2	4500-SO <sub>3</sub> B	\$76
	C1	Hach 8071	\$39
Temperature, Degrees Celsius	C2	2550B	\$13

Total, Fixed and Volatile Solids in Solid and Semisolid Samples in Sludge	C2	2540G	\$39
Turbidity, NTU	A2	180.1	\$39
	C2	2130B	\$39
<b>3. Metals in Wastewater</b>			
<b>a. Sample Preparation for Metals in Wastewater</b>			
Description	Reference	Method/s	Fee Per Method
Acid Extractable Metals	C	3030C	\$7
Microwave Digestion	Z7	CEM Microwave Digestion	\$7
Nitric Acid	C	3030E	\$7
Nitric Acid/Hydrochloric Acid	C	3030F	\$7
Nitric Acid/Perchloric Acid	C	3030H	\$7
Nitric Acid/Perchloric Acid/Hydrofluoric Acid	C	3030I	\$7
Nitric Acid/Sulfuric Acid	C	3030G	\$7
Preliminary Filtration	C	3030B	\$7
<b>b. Methods to Analyze Metals in Wastewater</b>			
Description	Reference	Method/s	Fee Per Method
Aluminum	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3113B	\$26
		3111D	\$26
Antimony	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3111B	\$26
		3113B	\$26
Arsenic	A	206.5	\$39
	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3113B	\$26
		3500-As C	\$76
	C1	Hach 8013	\$39
Barium	A1	200.7	\$10
		200.8	\$26
	C	3111D	\$26
		3113B	\$26
Beryllium	A1	200.7	\$10
		200.8	\$26
		200.9	\$26

	C	3111D	\$26
		3113B	\$26
		3500-Be D	\$76
Cadmium	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3111B	\$26
		3111C	\$26
		3113B	\$26
		3500-Cd D	\$76
	C1	3500-Cr D	\$39
		3111C	\$26
Chromium (VI) Hexavalent	C1	Hach 8023	\$39
Chromium, Total	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3111B	\$26
		3111C	\$26
		3113B	\$26
		3500-Cr D	\$76
	C1	Hach 8023	\$39
Cobalt	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3111B	\$26
		3111C	\$26
		3113B	\$26
	C1	Hach 8023	\$39
Copper	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3111B	\$26
		3111C	\$26
		3113B	\$26
		3500-Cu D	\$76
	C1	Hach 8506	\$39
Gold	A	231.2	\$26
	C	3111B	\$26
Iridium	A	235.2	\$26
	C	3111B	\$26
Iron	A1	200.7	\$10
		200.9	\$26
	C	3111B	\$26
		3111C	\$26

		3113B	\$26
		3500-Fe D	\$76
	C1	Hach 8008	\$39
	A1	200.7	\$10
Lead		200.8	\$26
		200.9	\$26
	C	3111B	\$26
		3111C	\$26
		3113B	\$26
		3500-Pb D	\$76
	C1	Hach 8033	\$39
Lithium	A1	200.7	\$10
Magnesium	A1	200.7	\$10
	C	3111B	\$26
		3500-Mg D	\$76
Manganese	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3111B	\$26
		3113B	\$26
		3500-Mn D	\$76
	C1	Hach 8034	\$39
Mercury	A	245.2	\$52
	A1	245.1	\$52
	A4	1631E	\$152
	C	3112B	\$52
Molybdenum	A1	200.7	\$10
		200.8	\$26
	C	3111D	\$26
		3113B	\$26
Nickel	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3111B	\$26
		3111C	\$26
		3113B	\$26
	C1	Hach 8037	\$39
Osmium	A	252.2	\$26
	C	3111D	\$26
Palladium	A	253.2	\$26
	C	3111B	\$26
Platinum	A	255.2	\$26
	C	3111B	\$26

Rhodium	A	265.2	\$26
	C	3111B	\$26
Ruthenium	A	267.2	\$26
	C	3111B	\$26
Selenium	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3113B	\$26
		3114B	\$76
Silver	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3111B	\$26
		3111C	\$26
		3113B	\$26
Strontium	A1	200.7	\$10
	C	3111B	\$26
		3500-Sr B	\$26
		3500-Sr C	\$20
		3500-Sr D	\$26
Thallium	A	279.2	\$26
	A1	200.7	\$10
		200.8	\$26
		200.9	\$26
	C	3111B	\$26
Tin	A1	200.7	\$10
		200.9	\$26
	C	3111B	\$26
		3113B	\$26
Titanium	A	283.2	\$26
	C	3111D	\$26
Vanadium	A1	200.7	\$10
		200.8	\$26
	C	3111D	\$26
		3500-V D	\$76
Zinc	A	289.2	\$26
	A1	200.7	\$10
		200.8	\$26
	C	3111B	\$26
		3111C	\$26
		3500-Zn E	\$76
		3500-Zn F	\$76
	C1	Hach 8009	\$39

<b>4. Aquatic Toxicity Bioassay of Wastewater</b>			
<b>Description</b>	<b>Reference</b>	<b>Method/s</b>	<b>Fee Per Method</b>
Toxicity, Acute	M1	EPA/600/4-90/027F	\$194
	Z13	821-R-02-012	\$194
Toxicity, Chronic	N1	EPA/600/4-91/002	\$194
	Z3	821-R-02-013	\$194
<b>5. Organic Chemicals of Wastewater</b>			
<b>Description</b>	<b>Reference</b>	<b>Method/s</b>	<b>Fee Per Method</b>
Volatile Organics for Pharmaceuticals	D3	524.2 (4.1)	\$152
Purgeable Hydrocarbons	E	601	\$76
Purgeable Aromatics	E	602	\$76
Acrolein and Acrylonitrile	E	603	\$76
		624 (Approved for screening only, not for quantification)	\$152
		1624B	\$152
Phenols	E	604	\$116
Phthalate ester	E	606	\$116
Nitrosamines	E	607	\$116
Organochlorine Pesticides and PCBs	E	608	\$152
Nitroaromatics and Isophorone	E	609	\$116
PAHs	E	610	\$116
Haloethers	E	611	\$116
Chlorinated Hydrocarbons (does not include dichlorobenzenes)	E	612	\$116
2, 3, 7, 8-Tetrachlorodibenzo-p-Dioxin	E	613	\$457
Carbon-, Hydrogen-, and Oxygen-Containing Pesticides	Z2	616	\$116
Purgeables	E	624	\$152
Base/Neutrals and Acids (all analytes excluding pesticides and does not include dichlorobenzenes)	E	625	\$152
Base/Neutrals and Acids (pesticides only and does not include dichlorobenzenes)	E	625	\$152
Tetra- through Octa-Chlorinated Dioxins and Furans	E	1613B	\$258
VOCs by Isotope Dilution GC/MS	E	1624B	\$152
Semivolatile Organic Compounds by Isotope Dilution GC/MS	E	1625B	\$152



Organophosphorus Pesticides	E	1657	\$116
VOCs Specific to the Pharmaceutical Manufacturing Industry by Isotope Dilution GC/MS	K2	1666 (A)	\$152
Herbicides	C2	6640B	\$116
Ethylene Glycol	K	BLS-188	\$152

#### 6. Radiochemistry of Wastewater

Description	Reference	Method/s	Fee Per Method
Gross Alpha	C2	7110B	\$206
	L	900	\$206
Gross Beta	C2	7110B	\$206
	L	900	\$206
Radium, Total	C2	7500-Ra B	\$206
	L	903	\$206
Radium 226	C2	7500-Ra C	\$206
	L	903.1	\$206

### SECTION C. SOLID WASTE PARAMETERS

#### 1. Microbiology of Solid Waste

Description	Reference	Method/s	Fee Per Method
Coliforms, Total, by Membrane Filter	F	9132	\$228
Coliforms, Total, by Multiple Tube Fermentation	F	9131	\$228

#### 2. Physical Properties Testing of Solid Waste

Description	Reference	Method/s	Fee Per Method
Corrosive to Steel	F	1110A	\$63
Corrosivity—pH Determination	F	9040C	\$63
EP Toxicity	F	1310B	\$76
Ignitability (Flashpoint Determination)	F	1010A	\$32
		1020B	\$32
Paint Filter Liquids Test	F	9095B	\$19
TCLP	F	1311	\$303

#### 3. Sample Preparation for Metals in Solid Waste

Description	Reference	Method/s	Fee Per Method
Dissolved in Water	F	3005A	\$7

Microwave Assisted Digestions	F	3015A	\$7
		3051	\$7
		3052	\$7
Oils, Greases, and Waxes	F	3040A	\$7
		3031	\$7
Sediments, Sludges, and Soils	F	3050B	\$7
Total Metals	F	3010A	\$7
		3020A	\$7
Total Recoverable in Water	F	3005A	\$7
<b>4. Inorganic Chemistry and Metals of Solid Waste</b>			
<b>Description</b>	<b>Reference</b>	<b>Method/s</b>	<b>Fee Per Method</b>
Aluminum	F	6010B	\$10
		6020	\$26
	F11	7000B	\$26
Ammonia	A	350.3	\$39
Antimony	F	6010B	\$10
		6020	\$26
		7062	\$76
	F11	7000B	\$26
	F12	7010	\$26
Arsenic	F	6010B	\$10
		7061A	\$76
		7062	\$76
		7063	\$76
		6020	\$26
	F12	7010	\$26
Barium	F	6010B	\$10
		6020	\$26
	F11	7000B	\$26
	F12	7010	\$26
Beryllium	F	6010B	\$10
		6020	\$26
	F11	7000B	\$26
	F12	7010	\$26
Bomb Preparation Method for Solid Waste	F	5050	\$7
Boron	F	6010B	\$10
Bromide	F	9056	\$26
		9211	\$39
Cadmium	F	6010B	\$10

		6020	\$26
	F11	7000B	\$26
	F12	7010	\$26
Calcium	F	6010B	\$10
	F11	7000B	\$26
Cation-Exchange Capacity of Soils	F	9080	\$34
		9081	\$34
Chloride	F	9056	\$26
		9057	\$76
		9212	\$39
		9250	\$76
		9251	\$76
		9253	\$39
Chlorine, Total, in New and Used Petroleum Products	F	9075	\$76
		9076	\$39
		9077	\$39
Chromium, Hexavalent	F	7195	\$26
		7196A	\$76
		7197	\$26
		7198	\$40
		7199	\$76
Chromium, Total	F	6010B	\$10
		6020	\$26
	F11	7000B	\$26
	F12	7010	\$26
Cobalt	F	6010B	\$10
		6020	\$26
	F11	7000B	\$26
	F12	7010	\$26
Compatability Test for Wastes and Membranes Liners	F	9090A	\$152
Copper	F	6010B	\$10
		6020	\$26
	F11	7000B	\$26
	F12	7010	\$26
Cyanide	F	9010C	\$13
		9012B	\$76
		9213	\$76

		9014	\$76
	F9	9015	\$76
Cyanide Extraction for Solids and Oils	F10	9013A	\$39
Dermal Corrosion	F	1120	\$63
EP for Oily Wastes	F	1330A	\$76
Flashpoint Determination	F	1030	\$32
Fluoride	F	9056	\$26
		9214	\$39
Iron	F	6010B	\$10
	F11	7000B	\$26
	F12	7010	\$26
Kjeldahl Total, Nitrogen	A	351.4	\$76
Lead	F	6010B	\$10
		6020	\$26
	F11	7000B	\$26
	F12	7010	\$26
Liquid Release Test Procedure	F	9096	\$39
Lithium	F	6010B	\$10
	F11	7000B	\$26
Magnesium	F	6010B	\$10
	F11	7000B	\$26
Manganese	F	6010B	\$10
		6020	\$26
	F11	7000B	\$26
	F12	7010	\$26
Mercury	F	7470A	\$52
		7471A	\$52
		7472	\$152
Molybdenum	F	6010B	\$10
	F11	7000B	\$26
	F12	7010	\$26
Multiple EP	F	1320	\$152
Nickel	F	6010B	\$10
		6020	\$26
	F11	7000B	\$26
	F12	7010	\$26
Nitrate	F	9210	\$39
		9056	\$26
Nitrite	F	9056	\$26
Oil and Grease and Petroleum Hydrocarbons	K1	1664A	\$76
O-Phosphate-P	F	9056	\$26

Osmium	F	6010B	\$10
	F11	7000B	\$26
Paint Filter Liquids Test	F	9095B	\$19
Perchlorate	Z	314	\$76
pH (Hydrogen Ion)	F	9041A	\$39
		9045D	\$39
Phosphorus	F	6010B	\$10
Phosphorus, Total	A	365.3	\$76
Potassium	F	6010B	\$10
	F11	7000B	\$26
Saturated Hydraulic and Leachate Conductivity and Intrinsic Permeability	F	9100	\$152
Selenium	F	6010B	\$10
		7741A	\$26
		7742	\$76
	F12	7010	\$26
Silica	F	6010B	\$10
Silver	F	6010B	\$10
		6020	\$26
	F11	7000B	\$26
	F12	7010	\$26
Sodium	F	6010B	\$10
	F11	7000B	\$26
Sodium Azide	C2	4110C	\$76
Specific Conductance	F	9050A	\$39
SPLP	F	1312	\$303
Strontium	F	6010B	\$10
	F11	7000B	\$26
Sulfate	F	9035	\$76
		9036	\$76
		9038	\$76
		9056	\$26
Sulfides	F	9030B	\$76
		9031	\$76
		9215	\$76
		9034	\$76
Thallium	F	6010B	\$10
		6020	\$26
	F11	7000B	\$26
	F12	7010	\$26
Tin	F	6010B	\$10
	F11	7000B	\$26

Titanium	F	6010B	\$10
Vanadium	F	6010B	\$10
	F11	7000B	\$26
	F12	7010	\$26
White Phosphorus by GC	F	7580	\$116
Zinc	F	6010B	\$10
		6020	\$26
	F11	7000B	\$26
	F12	7010	\$26
<b>5. Organics Procedures in Solid Waste</b>			
<b>Description</b>	<b>Reference</b>	<b>Method/s</b>	<b>Fee Per Method</b>
Separatory Funnel Liquid-Liquid Extraction	F	3510C	\$13
Organic Compounds in Water by Microextraction	F5	3511	\$13
Continuous Liquid-Liquid Extraction	F	3520C	\$13
SPE	F	3535	\$13
Soxhlet Extraction	F	3540C	\$13
Automated Soxhlet Extraction	F	3541	\$13
Pressurized Fluid Extraction	F	3545	\$13
Ultrasonic Extraction	F	3550B	\$13
Supercritical Fluid Extraction of Total Recoverable Petroleum Hydrocarbons	F	3560	\$13
Supercritical Fluid Extraction of PAHs	F	3561	\$13
MSE	F4	3570	\$13
Waste Dilution	F	3580A	\$13
Waste Dilution for Volatile Organics	F	3585	\$13
Alumina Cleanup	F	3610B	\$13
Alumina Column Cleanup and Separation of Petroleum Wastes	F	3611B	\$13
Florisil Cleanup	F	3620B	\$13
Silica Gel Cleanup	F	3630C	\$13
Gel-Permeation Cleanup	F	3640A	\$13
Acid-Base Partition Cleanup	F	3650B	\$13
Sulfur Cleanup	F	3660B	\$13
Sulfuric Acid/Permanganate Cleanup	F	3665A	\$13
Screening for Pentachlorophenol by Immunoassay	F	4010A	\$76

Screening for 2,4-Dichlorophenoxyacetic Acid by Immunoassay	F	4015	\$76
Screening for PCBs by Immunoassay	F	4020	\$76
Screening for PCDDs and PCDFs by Immunoassay	F3	4025	\$76
Soil Screening for Petroleum Hydrocarbons by Immunoassay	F	4030	\$76
Soil Screening for PAHs by Immunoassay	F	4035	\$76
Soil Screening for Toxaphene by Immunoassay	F	4040	\$76
Soil Screening for Chlordane by Immunoassay	F	4041	\$76
Soil Screening for DDT by Immunoassay	F	4042	\$76
TNT Explosives in Soil by Immunoassay	F	4050	\$76
RDX in Soil by Immunoassay	F	4051	\$76
VOCs in Various Sample Matrices Using Equilibrium Headspace Analysis	F8	5021A	\$13
Purge-and-Trap for Aqueous Samples	F6	5030C	\$13
Volatile, Nonpurgeable, Water-Soluble Compounds by Azeotropic Distillation	F	5031	\$13
VOCs by Vacuum Distillation	F	5032	\$13
Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples	F2	5035A	\$13
Analysis for Desorption of Sorbent Cartridges from VOST	F	5041A	\$13
EDB and DBCP by Microextraction and GC	F	8011	\$116
C <sub>10</sub> – C <sub>32</sub> Hydrocarbons	K	8015AZ 1	\$116
Nonhalogenated Organics Using GC/FID	F7	8015D	\$116
Aromatic and Halogenated Volatiles by GC Using Photoionization and/or Electrolytic Conductivity Detectors	F	8021B	\$152
Acrylonitrile by GC	F	8031	\$76
Acrylamide by GC	F	8032A	\$76

Acetonitrile by GC with Nitrogen-Phosphorus Detection	F	8033	\$76
Phenols by GC	F	8041	\$116
Phthalate Esters by GC/ECD	F	8061A	\$116
Nitrosamines by GC	F	8070A	\$116
Organochlorine Pesticides by GC	F	8081A	\$152
PCBs by GC	F	8082	\$152
Nitroaromatics and Cyclic Ketones by GC	F	8091	\$116
PAHs	F	8100	\$116
Haloethers by GC	F	8111	\$116
Chlorinated Hydrocarbons by GC: Capillary Column Technique	F	8121	\$116
Aniline and Selected Derivatives by GC	F	8131	\$116
Organophosphorus Compounds by GC	F	8141A	\$152
Chlorinated Herbicides by GC Using Methylation or Pentafluorobenzoylation Derivatization	F	8151A	\$152
VOCs by GC/MS	F	8260B	\$152
Semivolatile Organic Compounds by GC/MS	F	8270C	\$152
Semivolatile Organic Compounds (PAHs and PCBs) in Soils/Sludges and Solid Wastes Using TE/GC/MS	F	8275A	\$152
8280A: Polychlorinated Dibenzo- <i>p</i> -Dioxins and PCDFs by HRGC/LRMS	F	8280A	\$258
PCDDs and PCDFs by HRGC/HRMS	F	8290	\$258
PAHs	F	8310	\$116
Determination of Carbonyl Compounds by HPLC	F	8315A	\$116
Acrylamide, Acrylonitrile, and Acrolein by HPLC	F	8316	\$116
<i>N</i> -Methylcarbamates by HPLC	F	8318	\$116
Solvent-Extractable Nonvolatile Compounds by HPLC/TS/MS or UV Detection	F	8321A	\$152
Solvent Extractable Nonvolatile Compounds by HPLC/PB/MS	F	8325	\$152



Nitroaromatics and Nitramines by HPLC	F	8330	\$116
Tetrazene by Reverse Phase HPLC	F	8331	\$116
Nitroglycerine by HPLC	F	8332	\$116
GC/FT-IR Spectrometry for Semivolatile Organics: Capillary Column	F	8410	\$116
Analysis of Bis (2-chloroethyl) Ether and Hydrolysis Products by Direct Aqueous Injection GC/FT-IR	F	8430	\$116
Total Recoverable Petroleum Hydrocarbons by Infrared Spectrophotometry	F	8440	\$116
Colorimetric Screening Method for TNT in Soil	F	8515	\$76
TOX	F	9020B	\$76
POX	F	9021	\$76
TOX by Neutron Activation Analysis	F	9022	\$114
EOX in Solids	F	9023	\$114
TOCs	F	9060A	\$76
Phenolics	F	9065	\$152
		9066	\$152
		9067	\$152
HEM for Aqueous Samples	F	9070A	\$76
HEM for Sludge, Sediment, and Solid Samples	F	9071B	\$76
PCBs in Waste Oil	F1	600/4-81-045	\$152
6. Bulk Asbestos Analysis of Solid Waste			
Description	Reference	Method/s	Fee Per Method
Bulk Asbestos Analysis	G	9002	\$228
	H	Bulk Asbestos	\$228
Fiber Counting	G	7400	\$228
		7402	\$228
7. Radiochemistry of Solid Waste			
Description	Reference	Method/s	Fee Per Method
Alpha-Emitting Radium Isotopes	F	9315	\$206
Gross Alpha and Beta	F	9310	\$206
Radium-228	F	9320	\$206
SECTION D. AIR AND STACK PARAMETERS			
1. Ambient Air Primary and Secondary Pollutants			

Description	Reference	Method/s	Fee Per Method
Carbon Monoxide	O	Appendix C	\$393
Formaldehyde	F	8520	\$393
Hydrocarbons	O	Appendix E	\$393
Lead	O	Appendix G	\$393
Nitrogen Dioxide	O	Appendix F	\$393
Ozone	O	Appendix D	\$393
		Appendix H	\$393
Particulate Matter	O	Appendix B	\$393
		Appendix J	\$393
		Appendix K	\$393
Sulfur Oxides	O	Appendix A	\$393

## 2. Stationary and Stack Sources

Description	Reference	Method/s	Fee Per Method
Carbon Dioxide, Oxygen, and Excess Air	Q	Method 3	\$393
Carbon Monoxide	Q	Method 10	\$393
		Method 10A	\$393
		Method 10B	\$393
Carbonyl Sulfide, Hydrogen Sulfide, and Carbon Disulfide	Q	Method 15	\$393
Fluoride	Q	Method 13A	\$393
		Method 13B	\$393
		Method 14	\$393
Fugitive Emissions	Q	Method 22	\$393
Gaseous Organic Compounds	Q	Method 18	\$393
		Method 25	\$393
		Method 25A	\$393
		Method 25B	\$393
Hydrogen Sulfide	Q	Method 11	\$393
Inorganic Lead	Q	Method 12	\$393
Moisture Content	Q	Method 4	\$393
Nitrogen Oxide	Q	Method 7	\$393
		Method 7A	\$393
		Method 7B	\$393
		Method 7C	\$393

		Method 7D	\$393
		Method 7E	\$393
		Method 19	\$393
		Method 20	\$393
Particulate Emissions by Asphalt Processing	Q	Method 5A	\$152
Particulate Emissions by Fiberglass Insulation	Q	Method 5E	\$152
Particulate Emissions by Nonsulfate	Q	Method 5F	\$152
Particulate Emissions by Nonsulfuric Acid	Q	Method 5B	\$152
Particulate Emissions by Pressure Filters	Q	Method 5D	\$152
Particulate Emissions by Stationary Sources	Q	Method 5	\$152
		Method 17	\$152
Particulate Emissions by Sulfur Dioxide	Q	Method 19	\$152
Particulate Emissions by Wood Heaters	Q	Method 5G	\$152
		Method 5H	\$152
Petroleum Products, Heat of Combustion	I	D240-92	\$76
		D240-87	\$76
Petroleum Products, Hydrometer Method	I	D287-92	\$76
Petroleum Products, Sulfur	I	D4294-90	\$152
Sulfur and Total Reduced Sulfur	Q	Method 15A	\$393
		Method 16	\$393
		Method 16A	\$393
		Method 16B	\$393
Sulfur Dioxide	Q	Method 6	\$393
		Method 6A	\$393
		Method 6B	\$393
		Method 6C	\$393
		Method 8	\$393
		Method 19	\$393
		Method 20	\$393

Sulfuric Acid Mist	Q	Method 8	\$393
Vapor Tightness, Gasoline Delivery Tank	Q	Method 27	\$393
Volatile Matter Density, Solids and Water	Q	Method 24	\$393
		Method 24A	\$393
VOCs	Q	Method 21	\$393
	S1	TO-15	\$152
Wood Heaters, Certification and Burn Rates	Q	Method 28	\$393
		Method 28A	\$393

### 3. ADEQ Emission Test

Description	Reference	Method/s	Fee Per Method
Particulate Emissions, Dry Matter	R	Method A2	\$393
Particulate Emissions, Sulfuric Acid Mist/Sulfur Oxides	R	Method A1	\$393


### 4. National Emission Standards for Hazardous Air Pollutants

Description	Reference	Method/s	Fee Per Method
Arsenic	S	Method 108	\$393
		Method 108A	\$393
		Method 108B	\$393
		Method 108C	\$393
Beryllium	S	Method 103	\$393
		Method 104	\$393
Mercury	S	Method 101	\$393
		Method 101A	\$393
		Method 102	\$393
		Method 105	\$393
Polonium 210	S	Method 111	\$393
Vinyl Chloride	S	Method 106	\$393
		Method 107	\$393
		Method 107A	\$393

### SECTION E. METHODS APPROVED BY THE DEPARTMENT UNDER R9-14-610(C)

Description	Reference	Method/s	Fee Per Method
Chromatographic Method	-	Any	\$116
Mass Spectrometric Method	-	Any	\$152


Toxicity Method	-	Any	\$194
Other Method	-	Any	\$75

	<b>Environmental Laboratory Licensure Application</b>			<b>Laboratory Licensure and Certification</b>  250 N. 17 <sup>th</sup> Avenue Phoenix, AZ 85007-3231 602-364-0720 FAX 602-364-0759
	<b>PART D – Instrument and Data Collection/Data Reduction Software</b>			
List <b>ONLY</b> those instruments/equipment and software used for instrument control and data reduction interpretation used for method testing <b>FOR THE STATE OF ARIZONA</b> . Please check the detectors used in the laboratory and then provide the number of instruments in each category. Please check the box next to the appropriate software. <b>CAUTION: You <u>will be billed</u> for every instrument/equipment listed below!</b> Refer to Exhibit I, Table 2 of the rules.				
<b>INSTRUMENTATION</b>	<b>NUMBER OF DETECTORS</b>	<b>NUMBER OF INSTRUMENTS</b>	<b>FEE PER INSTRUMENT</b>	<b>SOFTWARE (NO FEE)</b>
Atomic Absorption	Cold Vapor		\$76	<input type="checkbox"/> Perkin Elmer <input type="checkbox"/> Varian <input type="checkbox"/> Leeman  <input type="checkbox"/> Other (specify): _____
	Flame Burner			
	Graphite Furnace			
	Hydride Generator			
	Other			
Counters for Radioactivity			\$76	<input type="checkbox"/> Beckman <input type="checkbox"/> Canberra <input type="checkbox"/> Berthold  <input type="checkbox"/> Other (specify): _____
Gas Chromatograph	Electron Capture		\$76	<input type="checkbox"/> Maxima <input type="checkbox"/> EnviroQuant/Chemstation <input type="checkbox"/> TurboChrom <input type="checkbox"/> Varian Star <input type="checkbox"/> Millennium Chromatography Manager <input type="checkbox"/> Chromeleon (Dionex) <input type="checkbox"/> EZ Chrom <input type="checkbox"/> OPUS <input type="checkbox"/> Varian Saturn  <input type="checkbox"/> Other (specify): _____
	Flame Ionization			
	Flame Photometric			
	Halide Specific			
	Nitrogen/Phosphorus			
	Photoionization			
	Other			

INSTRUMENTATION	NUMBER OF DETECTORS	NUMBER OF INSTRUMENTS	FEE PER INSTRUMENT	SOFTWARE (NO FEE)
Gas Chromatograph/ Mass Spectrometer	High Resolution		\$194	<input type="checkbox"/> Magnum <input type="checkbox"/> EnviroQuant/Chemstation <input type="checkbox"/> TurboChrom <input type="checkbox"/> Varian Star <input type="checkbox"/> Millennium Chromatography Manager <input type="checkbox"/> OPUS <input type="checkbox"/> Varian Saturn <input type="checkbox"/> Other (specify): _____
	Other than High Resolution		\$152	<input type="checkbox"/> Other (specify): _____
High Pressure Liquid Chromatograph	Ultraviolet		\$76	<input type="checkbox"/> Waters <input type="checkbox"/> Maxima <input type="checkbox"/> Varian Star <input type="checkbox"/> TurboChrom <input type="checkbox"/> Millennium Chromatography Manager <input type="checkbox"/> ChemStation <input type="checkbox"/> Chromeleon <input type="checkbox"/> Other (specify): _____
	Fluorescence			
	Other			
High Pressure Liquid Chromatograph/ Mass Spectrometer			\$152	<input type="checkbox"/> Varian Star <input type="checkbox"/> Horizon <input type="checkbox"/> Other (specify): _____
Inductively Coupled Plasma			\$76	<input type="checkbox"/> Perkin Elmer <input type="checkbox"/> Agilent <input type="checkbox"/> Varian <input type="checkbox"/> TJA (Thermo Jarrel Ash) <input type="checkbox"/> Other (specify): _____
Inductively Coupled Plasma/Mass Spectrometer			\$152	<input type="checkbox"/> Perkin Elmer <input type="checkbox"/> Agilent <input type="checkbox"/> Varian <input type="checkbox"/> TJA (Thermo Jarrel Ash) <input type="checkbox"/> Other (specify): _____

INSTRUMENTATION	NUMBER OF DETECTORS	NUMBER OF INSTRUMENTS	FEE PER INSTRUMENT	SOFTWARE (NO FEE)
Ion Chromatograph			\$76	<input type="checkbox"/> PeakNet (Dionex) <input type="checkbox"/> Chromeleon (Dionex) <input type="checkbox"/> ChromPerfect <input type="checkbox"/> EZ Chrom <input type="checkbox"/> Omnionic (Lachat) <input type="checkbox"/> Metrohm <input type="checkbox"/> Other (specify): _____
Automated Autoanalyzer			\$76	<input type="checkbox"/> Omnion (Lachat) <input type="checkbox"/> Other (specify): _____
Mercury Analyzer			\$76	<input type="checkbox"/> FIMS <input type="checkbox"/> Leeman - Hydra <input type="checkbox"/> MARRS <input type="checkbox"/> Perkin Elmer <input type="checkbox"/> Avalon <input type="checkbox"/> Other (specify): _____
Organic Halide, Total			\$76	<input type="checkbox"/> Dohrmann <input type="checkbox"/> Euroglas <input type="checkbox"/> MCI <input type="checkbox"/> Rosemont <input type="checkbox"/> Other (specify): _____
Transmission Electron Microscope			\$396	<input type="checkbox"/> Other (specify): _____
X-Ray Diffraction Unit			\$76	<input type="checkbox"/> Asoma <input type="checkbox"/> Other (specify): _____



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	<b>PART E – Director Approval</b>	

Part E lists director approved methods available to all laboratories. In addition, the director approval process is outlined in the following pages. These methods are current as of **June 2015**.

Director Approved Methods (Refer to A.A.C. R9-14-610.B for references.) AIR = Air program. SDW = Drinking water. WW = Wastewater. SW = Solid, Liquid, and Hazardous Waste.

Description	Program	Reference	Method	Fee
Aluminum	AIR	Note 9	IO-3.4	\$10
Aluminum	AIR	Note 10	IO-3.5	\$26
Antimony	AIR	Note 9	IO-3.4	\$10
Antimony	AIR	Note 10	IO-3.5	\$26
Arsenic	AIR	Note 9	IO-3.4	\$10
Arsenic	AIR	Note 10	IO-3.5	\$26
Arsenic	AIR	Note 14	Method 29 - ICP	\$10
Arsenic	AIR	Note 14	Method 29- ICPMS	\$26
Barium	AIR	Note 9	IO-3.4	\$10
Barium	AIR	Note 10	IO-3.5	\$26
Barium	AIR	Note 14	Method 29 - ICP	\$10
Barium	AIR	Note 14	Method 29- ICPMS	\$26
Beryllium	AIR	Note 9	IO-3.4	\$10
Beryllium	AIR	Note 10	IO-3.5	\$26
Beryllium	AIR	Note 14	Method 29 - ICP	\$10
Beryllium	AIR	Note 14	Method 29- ICPMS	\$26
Bismuth	AIR	Note 9	IO-3.4	\$10
Boron	AIR	Note 9	IO-3.4	\$10
Cadmium	AIR	Note 9	IO-3.4	\$10
Cadmium	AIR	Note 10	IO-3.5	\$26
Cadmium	AIR	Note 14	Method 29 - ICP	\$10
Cadmium	AIR	Note 14	Method 29- ICPMS	\$26

Calcium	AIR	Note 9	IO-3.4	\$10
Carbon Dioxide, Methane, Nitrogen, & Oxygen	AIR	Note 7	Method 3C	\$393
Cesium	AIR	Note 9	IO-3.4	\$10
Chromium	AIR	Note 9	IO-3.4	\$10
Chromium	AIR	Note 10	IO-3.5	\$26
Chromium	AIR	Note 14	Method 29 - ICP	\$10
Chromium	AIR	Note 14	Method 29- ICPMS	\$26
Cobalt	AIR	Note 9	IO-3.4	\$10
Cobalt	AIR	Note 10	IO-3.5	\$26
Cobalt	AIR	Note 14	Method 29 - ICP	\$10
Cobalt	AIR	Note 14	Method 29- ICPMS	\$26
Copper	AIR	Note 9	IO-3.4	\$10
Copper	AIR	Note 10	IO-3.5	\$26
Copper	AIR	Note 14	Method 29 - ICP	\$10
Copper	AIR	Note 14	Method 29- ICPMS	\$26
Digestion of Ambient Matter	AIR	Note 8	IO-3.1	\$7
Germanium	AIR	Note 9	IO-3.4	\$10
Gold	AIR	Note 9	IO-3.4	\$10
Indium	AIR	Note 9	IO-3.4	\$10
Iron	AIR	Note 9	IO-3.4	\$10
Lanthanum	AIR	Note 9	IO-3.4	\$10
Lithium	AIR	Note 9	IO-3.4	\$10
Lead	AIR	Note 9	IO-3.4	\$10
Lead	AIR	Note 10	IO-3.5	\$26
Lead	AIR	Note 14	Method 29 - ICP	\$10
Lead	AIR	Note 14	Method 29- ICPMS	\$26

Magnesium	AIR	Note 9	IO-3.4	\$10
Manganese	AIR	Note 9	IO-3.4	\$10
Manganese	AIR	Note 10	IO-3.5	\$26
Manganese	AIR	Note 14	Method 29 - ICP	\$10
Manganese	AIR	Note 14	Method 29- ICPMS	\$26
Mercury	AIR	Note 9	IO-3.4	\$10
Mercury	AIR	Note 14	Method 29 – CVAA	\$52
Mercury Total Vapor-Phase	AIR	Note 46	Method PS-12B	\$ 393
Molybdenum	AIR	Note 9	IO-3.4	\$10
Molybdenum	AIR	Note 10	IO-3.5	\$26
Nickel	AIR	Note 9	IO-3.4	\$10
Nickel	AIR	Note 10	IO-3.5	\$26
Nickel	AIR	Note 14	Method 29 - ICP	\$10
Nickel	AIR	Note 14	Method 29- ICPMS	\$26
Niobium	AIR	Note 9	IO-3.4	\$10
Nonmethane Organic Compounds	AIR	Q	Method 25C	\$393
Palladium	AIR	Note 9	IO-3.4	\$10
Phosphorus	AIR	Note 9	IO-3.4	\$10
Phosphorus	AIR	Note 14	Method 29 – ICP	\$10
Platinum	AIR	Note 9	IO-3.4	\$10
Particulate Matter as PM 2.5 in Atmosphere	AIR	Note 24	Appendix L	\$393
Particulate Matter as PM 10-2.5 in Atmosphere	AIR	Note 23	Appendix O	\$393
Potassium	AIR	Note 9	IO-3.4	\$10
Rhenium	AIR	Note 9	IO-3.4	\$10

Rhodium	AIR	Note 9	IO-3.4	\$10
Ruthenium	AIR	Note 9	IO-3.4	\$10
Samarium	AIR	Note 9	IO-3.4	\$10
Selenium	AIR	Note 9	IO-3.4	\$10
Selenium	AIR	Note 10	IO-3.5	\$26
Selenium	AIR	Note 14	Method 29 - ICP	\$10
Selenium	AIR	Note 14	Method 29- ICPMS	\$26
Silicon	AIR	Note 9	IO-3.4	\$10
Silver	AIR	Note 10	IO-3.5	\$26
Silver	AIR	Note 14	Method 29 - ICP	\$10
Silver	AIR	Note 14	Method 29- ICPMS	\$26
Sodium	AIR	Note 9	IO-3.4	\$10
Strontium	AIR	Note 9	IO-3.4	\$10
Tantalum	AIR	Note 9	IO-3.4	\$10
Tellurium	AIR	Note 9	IO-3.4	\$10
Thallium	AIR	Note 9	IO-3.4	\$10
Thallium	AIR	Note 10	IO-3.5	\$26
Thallium	AIR	Note 14	Method 29 - ICP	\$10
Thallium	AIR	Note 14	Method 29- ICPMS	\$26
Thorium	AIR	Note 10	IO-3.5	\$26
Tin	AIR	Note 9	IO-3.4	\$10
Titanium	AIR	Note 9	IO-3.4	\$10
Tungsten	AIR	Note 9	IO-3.4	\$10
Uranium	AIR	Note 10	IO-3.5	\$26

Vanadium	AIR	Note 9	IO-3.4	\$10
Vanadium	AIR	Note 10	IO-3.5	\$26
VOCs	AIR	Note 4	TO-14A	\$152
Volatile Organic Compounds	AIR	Note 39	TO-3	\$152
VOCs in Vapor	AIR	S	8260B AZ Vapor	\$152
Yttrium	AIR	Note 9	IO-3.4	\$10
Zinc	AIR	Note 9	IO-3.4	\$10
Zinc	AIR	Note 10	IO-3.5	\$26
Zinc	AIR	Note 14	Method 29 - ICP	\$10
Zinc	AIR	Note 14	Method 29- ICPMS	\$26
Zirconium	AIR	Note 9	IO-3.4	\$10
Alkaline Digestion for Hexavalent Chromium	SW	F	3060A	\$7
Aluminum	SW	F	6020A	\$26
Antimony	SW	F	6020A	\$26
Arsenic	SW	F	6020A	\$26
Barium	SW	F	6020A	\$26
Beryllium	SW	F	6020A	\$26
Cadmium	SW	F	6020A	\$26
Calcium	SW	F	6020A	\$26
Chromium	SW	F	6020A	\$26
Cobalt	SW	F	6020A	\$26
Copper	SW	F	6020A	\$26
Iron	SW	F	6020A	\$26
Lead	SW	F	6020A	\$26
Magnesium	SW	F	6020A	\$26
Manganese	SW	F	6020A	\$26
Microwave Extraction	SW	Note1	3546	\$7
<i>n</i> -Hexane	SW	F	8260B	\$0

Mercury	SW	F	7473	\$152
Mercury	SW	F	7474	\$152
Mercury	SW	F	6020A	\$26
Nickel	SW	F	6020A	\$26
Nitroaromatics, Nitramines, and Nitrate Esters	SW	F	8330B	\$116
Perchlorate	SW	F	6850	\$152
Phosphorus	SW	F	3051A	\$7
Potassium	SW	F	6020A	\$26
Selenium	SW	F	6020A	\$26
Silver	SW	F	6020A	\$26
Sodium	SW	F	6020A	\$26
Thallium	SW	F	6020A	\$26
Vanadium	SW	F	6020A	\$26
Zinc	SW	F	6020A	\$26
Bromate	SDW	Note 22	302.0	\$26
Chlorate (For UCMR testing only)	SDW	Z	300.1	\$26
Chlorine, Residual	SDW	Note 38	334.0	\$39
Chlorine Dioxide	SDW	C1	10126	\$76
Cobalt (For UCMR testing only)	SDW	A1	200.8	\$26
Cryptosporidium & Giardia	SDW	Note 44	1623.1	\$381
Cyanide, Available	SDW	Note 40	OIA-1677	\$76
Cyanide, Available	SDW	Note 20	D6888-04	\$76
1,4-Dioxane by GC/MS (For UCMR testing only)	SDW	Note 26	522	\$152

<i>E. coli</i> and Coliforms by Colitag	SDW	Note5	Colitag	\$152
<i>E. coli</i> by Membrane Filtration Two Step	SDW	C2	9222B/9222G	\$76
Heterotrophic Plate Count (For Bottled Water testing only)	SDW	C2	9215D	\$152
Haloacetic Acids	SDW	Note 43	557	\$152
			Instrument IC/MS/MS	\$194
Hexavalent Chromium by IC (For UCMR testing only)	SDW	Note 27	218.7	\$116
Hormones by LC/MS/MS (For UCMR testing only)	SDW	Note 25	539	\$152
Molybdenum (For UCMR testing only)	SDW	A1	200.8	\$26
Perfluorinated Compounds by LC/MS/MS (For UCMR testing only)	SDW	Note 28	537	\$152
Radium 226	SDW	Note18	Gamma-ray HPGE or Ge(Li)	\$206
Radium 228	SDW	Note18	Gamma-ray HPGE or Ge(Li)	\$206
Silica	SDW	C2	4500 SiO2-C	\$76
Strontium (For UCMR testing only)	SDW	A1	200.8	\$26
Total Coliforms and <i>E. coli</i> by Readycult	SDW	Note2	Readycult Coliforms 100 P/A	\$152
Total Coliforms and <i>E. coli</i> by m-ColiBlue24	SDW	C1	HACH 10029	\$228
Uranium	SDW	Note3	D5174-97, 02	\$206
Uranium	SDW	Note 30	D6239-09	\$206
Uranium	SDW	Note 29	7500 U-C	\$206
Vanadium (For UCMR testing only)	SDW	A1	200.8	\$26

VOCs by GC-MS Benzene Carbon tetrachloride Chlorobenzene 1,2-dichlorobenzene 1,4-dichlorobenzene 1,2-dichloroethane cis-Dichloroethylene trans-Dichloroethylene Dichloromethane 1,2-Dichloropropane Ethylbenzene Styrene Tetrachloroethylene 1,1,1-Trichloroethane Trichloroethylene Toluene 1,2,4-Trichlorobenzene 1,1-Dichloroethylene 1,1,2-Trichloroethane Vinyl chloride Xylenes, total Total Trihalomethanes Dibromochloropropane (DBCP) Ethylene dibromide (EDB)	SDW	Note17	EPA 524.3	\$152
VOCs by GC/MS – Additional Compounds Required by Other Programs	SDW	Note17	EPA 524.3	\$26
Acrolein and Acrylonitrile	WW	Note 33	624	\$152
Aluminum	WW	Note 37	200.5	\$10
Ammonia (18 <sup>th</sup> Edition)	WW	Note 15	SM 4500-NH3B&C	\$76
Ammonia	WW	Note19	HACH 10205	\$39
Antimony	WW	Note 37	200.5	\$10
Antimony	WW	Note 45	1638	\$26
Arsenic	WW	Note 37	200.5	\$10
Barium	WW	Note 37	200.5	\$10
Beryllium	WW	Note 37	200.5	\$10
Boron	WW	Note 37	200.5	\$10
Boron	WW	A1	200.8	\$26
Biochemical Oxygen Demand (BOD5)	WW	Note 31	5210-2001	\$152
Biochemical Oxygen Demand (BOD5)	WW	Note 35	1003-8-2009	\$152
Bromide	WW	Z	300.1	\$26
Cadmium	WW	Note 37	200.5	\$10



Cadmium	WW	Note 45	1638	\$26
Calcium	WW	A1	200.8	\$26
Calcium	WW	Note 37	200.5	\$10
Carbamate and Urea Pesticides	WW	Note 33	632	\$116
Carbonaceous Biochemical Oxygen Demand (BOD5)	WW	Note 31	5210-2001	\$152
Carbonaceous Biochemical Oxygen Demand (CBOD5)	WW	Note 36	1004-8-2009	\$152
Chloride	WW	Z	300.1	\$26
Chloride	WW	C2	4500-Cl D	\$39
Chlorinated Herbicides	WW	Note 33	615	\$152
Chlorine, Total	WW	C2	4500-Cl E	\$39
Chromium	WW	Note 37	200.5	\$10
Chromium (VI) Hexavalent (IC method)	WW	A1	218.6	\$26
Chromium (VI) Hexavalent (IC Method)	WW	C	3500-Cr E	\$26
Chronic Toxicity on <i>Daphnia magna</i>	WW	Note	Lozarchak, J. 2001	\$194
Copper	WW	C	3500-Cu E	\$76
Copper	WW	Note 37	200.5	\$10
Copper	WW	Note 45	1638	\$26
Cryptosporidium	WW	Note 41	1622	\$381
Cryptosporidium and Giardia	WW	Note 42	1623	\$381
Cyanide, Available	WW	Note 20	D6888-04	\$76
Cyanide, Total	WW	A2	335.4	\$76
Cyanide, Total	WW	C2	4500-CN F	\$76
Cyanide, Total	WW	Z9	QuikChem 10-204-00-1-X	\$76
Dissolved Oxygen	WW	C1	10360	\$26
Dissolved Oxygen	WW	Note 34	1002-8-2009	\$26
<i>E. coli</i> by m-ColiBlue24	WW	C1	HACH 10029	\$228
Enteric Virus in Sewage Sludge	WW	Note13	EPA 625/R-92/013	\$381
Fecal Coliform by Colilert-18 (APP and Reuse only)	WW	C2	SM 9020B and 9223B	\$152
Fecal Coliform by Colilert-18 (NPDES – ATP Permits only)	WW	C2	SM 9020B and 9223B	\$152
Fecal Coliforms in Sludge by MTF	WW	Note11	EPA 1681	\$228
Fluoride	WW	Z	300.1	\$26
Gold	WW	A1	200.8	\$26
Hardness (Sum of Ca and Mg)	WW	A1	200.8	\$10
Hydrogen Sulfide	WW	C2	SM 4500-S <sup>2-</sup> H	\$10

Iron	WW	Note 37	200.5	\$10
Iron	WW	A1	200.8	\$26
Kjeldahl Total, Nitrogen	WW	C2	4500-NH3 D	\$39
Kjeldahl Total, Nitrogen	WW	C2	4500-NH3 E	\$39
Kjeldahl Total, Nitrogen (18 <sup>th</sup> edition)	WW	Note 16	SM4500-NH3B & C and NORG B	\$115
Kjeldahl Total, Nitrogen	WW	I	ASTM D3590-89/02-A/B	\$115
Lab Bench Scale Batch Digestion (Sludge)	WW	Note13	EPA 625/R-92/013	\$76
Lead	WW	Note 37	200.5	\$10
Lead	WW	Note 45	1638	\$26
Magnesium	WW	A1	200.8	\$26
Magnesium	WW	Note 37	200.5	\$10
Manganese	WW	Note 37	200.5	\$10
Mercury	WW	A1	200.7	\$10
Mercury	WW	Note6	245.7	\$152
Nickel	WW	Note 37	200.5	\$10
Nickel	WW	Note 45	1638	\$26
Nitrate	WW	Z	300.1	\$26
Nitrate	WW	C2	4500-NO3 D	\$39
Nitrate-Nitrite	WW	Z	300.1	\$26
Nitrite	WW	Z	300.1	\$26
Nitrite	WW	C2	4500-NO3 E	\$76
Nitrite	WW	C2	4500-NO3 F	\$76
Nitrite	WW	A2	353.2	\$76
Oil and Grease	WW	Note 32	1664, Rev B	\$76
Organochlorine Pesticides	WW	Note 33	608.1	\$152
Organochlorine Pesticides	WW	Note 33	608.2	\$152
Organohalide Pesticides and PCBs	WW	Note 33	617	\$152
Organophosphorous Pesticides	WW	Note 33	614	\$116
Organophosphorous Pesticides	WW	Note 33	614.1	\$116
Organophosphorous Pesticides	WW	Note 33	622	\$116
Orthophosphate	WW	Z	300.1	\$26

Potassium	WW	A1	200.8	\$26
pH (Hydrogen Ion)	WW	A	150.2	\$39
Phenols	WW	A2	420.4	\$116
Phosphorus	WW	A1	200.7	\$10
Selenium	WW	Note 37	200.5	\$10
Selenium	WW	Note 45	1638	\$26
Silica	WW	Note 37	200.5	\$10
Silica	WW	A1	200.7	\$10
<i>Salmonella</i> in Sludge by MSRV Medium	WW	Note12	EPA 1682	\$228
Silica	WW	A1	200.8	\$26
Silver	WW	Note 37	200.5	\$10
Silver	WW	Note 45	1638	\$26
Sodium	WW	Note 37	200.5	\$10
Sodium	WW	C	3500-Na D	\$26
Sodium	WW	A1	200.8	\$26
Sulfide	WW	C2	4500-S2 G	\$39
Sulfate	WW	A2	375.2	\$76
Sulfate	WW	Z	300.1	\$26
Sulfate	WW	Note 21	D516-02	\$76
Thallium	WW	Note 45	1638	\$26
Thiophosphate Pesticides	WW	Note 33	622.1	\$116
Tin	WW	Note 37	200.5	\$10
Tin	WW	A1	200.8	\$26
Titanium	WW	A1	200.7	\$10
Titanium	WW	A1	200.8	\$26
Triazine Pesticides	WW	Note 33	619	\$116
Uranium	WW	A1	200.8	\$26
Vanadium	WW	Note 37	200.5	\$10
Volatile Suspended Solids	WW	C2	2540E	\$30
Zinc	WW	Note 37	200.5	\$10
Zinc	WW	Note 45	1638	\$26

Note: Lozarchak, J. 2001. "Short-term Chronic Toxicity tests on *Daphnia magna* (survival and growth tests", USEPA.

Note1: SW-846 3546 "Microwave Extraction", Rev. 0. November 2000

Note2: ReadyCult Coliforms 100 Presence/Absence Test for Detection and Identification of Coliform Bacteria and *Escherichia coli* in Finished Waters, Version 1.1, January 2007

Note3: Standard Test Method for Trace Uranium in Water by Pulsed-Laser Phosphorimetry, ASTM 5174-97, 02

- Note4: Determination Of Volatile Organic Compounds (VOCs) In Ambient Air Using Specially Prepared Canisters With Subsequent Analysis By Gas Chromatography referencing the Compendium Method TO-14A, EPA/625/R-96/010b
- Note5: Colitag® Product as a Test for Detection and Identification of Coliforms and E. coli Bacteria in Drinking Water and Source Water as Required in National Primary Drinking Water Regulations, August 2001
- Note6: EPA Method 245.7, Rev. 2.0, February 2005, EPA 821-R-05-001, For the Determination of Mercury by Cold Vapor Atomic Fluorescence Spectrometry
- Note7: 40 CFR, Part 61, Appendix A, available at <http://www.access.gpo.gov/nara/cfr/cfr-table-search.html>
- Note8: Compendium Method IO-3.1, Selection, Preparation and Extraction of Filter Material, EPA/625/R-96/010a, June 1999, available at <http://www.epa.gov/ttn/amtic/files/ambient/inorganic/mthd-3-1.pdf>
- Note9: Compendium Method IO-3.4, Determination of Metals in Ambient Particulate Matter Using Inductively Coupled Plasma (ICP), EPA/625/R-96/01a, June 1999, available at <http://www.epa.gov/ttn/amtic/files/ambient/inorganic/mthd-3-4.pdf>
- Note10: Compendium Method IO-3.5, Determination of Metals in Ambient Particulate Matter Using Inductively Coupled Plasma/Mass Spectroscopy (ICP/MS), EPA/625/R-96/01a, June 1999, available at <http://www.epa.gov/ttn/amtic/files/ambient/inorganic/mthd-3-5.pdf>
- Note11: EPA Method 1681, July 2006, EPA-821-R-06-013, Fecal Coliforms in Sewage Sludge (Biosolids) by Multiple-Tube Fermentation using A-1 Medium.
- Note12: EPA Method 1682, July 2006, EPA-821-R-06-014, *Salmonella* in Sewage Sludge (Biosolids) by Modified Semisolid Rappaport-Vassiliadis (MSRV) Medium.
- Note13: EPA 625/R-92/013 – “White House Document” Environmental Regulations and Technology – Control of Pathogens and Vector Attraction in Sewage Revised July 2003, U.S. Environmental Protection Agency.
- Note 14: Method 29, 40 CFR - Chapter I, Part 60. Determination of Metals Emissions From Stationary Sources.
- Note 15: Ammonia by Nesslerization in Wastewater by SM 4500-NH<sub>3</sub> B&C by the American Public Health Association et al., Standard Methods for the Examination of Water and Wastewater (18th ed. 1992)
- Note 16: Total Kjeldahl Nitrogen by SM 4500-N Org B, 4500-NH<sub>3</sub> B & C by the American Public Health Association et al. Standard Methods of Examination of Water and Wastewater (18th ed. 1992)
- Note 17: EPA Method 524.3, Rev. 1.0, June 2009, EPA Document #EPA 815-B-09-009 for the Measurement of Purgeable Organic Compounds in Drinking Water by Capillary Column Gas Chromatography/Mass Spectrometry.
- Note 18: The Determination of Radium-226 and Radium-228 in Drinking Water by Gamma-ray Spectrometry Using HPGE Or Ge(Li) Detectors, "Revision 1.2, December 2004 Georgia Institute of Technology
- Note 19: HACH Company Ammonia Method 10205, Revision 2.0, August 2008 (See Attached) for the determination of ammonia.
- Note 20: ASTM-D6888-04, Standard Test Method for Available Cyanide with Ligand Displacement and Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection, ASTM International, 100 Barr Harbor Drive P.O. Box C700, West Conshohocken, Pa, 19428-2959
- Note 21: ASTM-D516-02, Standard Test Method for Sulfate Ion in Water, ASTM International, 100 Barr Harbor Drive P.O. Box C700, West Conshohocken, Pa, 19428-2959
- Note 22: EPA Method 302.0: Determination of Bromate in Drinking Water Using Two-Dimensional Ion Chromatography with Suppressed Conductivity Detection. EPA 815-B-09-014, Office of Water, September 2009.
- Note 23: 40 CFR 50 Appendix O, Reference Method for the Determination of Fine Particulate Matter as PM 2.5 in the Atmosphere
- Note 24: 40 CFR 50 Appendix L, Reference Method for the Determination of Fine Particulate Matter as PM 2.5 in the Atmosphere
- Note 25: EPA Method 539: Determination of Hormones in Drinking Water by Solid Phase Extraction (SPE) and Liquid Chromatography Electrospray Ionization Tandem Mass Spectrometry (LC-ESI-MS/MS), Office of Water, EPA Document No. 815-B-10-001, November 2010.
- Note 26: EPA Method 522 Determination of 1,4-Dioxane in Drinking Water by Solid Phase Extraction (SPE) and Gas Chromatography Mass Spectrometry (GC/MS) with Selected Ion Monitoring (SIM), Version 1.0, September 2008, EPA/600/R-08/101.
- Note 27: EPA Method 218.7: Determination of Hexavalent Chromium in Drinking Water by Ion Chromatography with Post-Column Derivatization and UV-Visible Spectroscopic Detection, Office of Water, EPA Document No. EPA 815-R-11-005, November 2011.
- Note 28: EPA Method 537: Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS), Version 1.1, September 2009, EPA Document # EPA/600/R-08/092
- Note 29: Uranium by SM 7500 U C, American Public Health Association et al. Standard Methods for the Examination of Water and Wastewater (21st ed. 2005), available from American Public Health Association
- Note 30: ASTM D6239-09, Standard Test Method for Uranium in Drinking Water by High Resolution Alpha Liquid Scintillation Spectrometry, ASTM International, 100 Barr Harbor Drive, PO Box C700, West Conshohocken. PA 19428-2959
- Note 31: Standard Methods for the Examination of Water and Wastewater, 21st edition, 2005, American Public Health Association et al., available from American Public Health Association
- Note 32: EPA Method 1664, Revision B, n n-Hexane Extractable Material and Silica Gel Treated n-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, February 2010, EPA-821-R-10-001.
- Note 33: EPA Clean Water Act Approved Industry-Specific Methods available at <http://water.epa.gov/scitech/methods/cwa/industry.cfm>
- Note 34: In-Situ Incorporated Method 1002-8-2009 Dissolved Oxygen Measurement by Optical Probe, 2009, available from In-Situ Incorporated, 221 E. Lincoln Avenue, Ft. Collins, CO 80524, (970) 498-1500.
- Note 35: In-Situ Incorporated Method 1003-8-2009 Biochemical Oxygen Demand (BOD) Measurement by Optical Probe, 2009, available from In-Situ Incorporated, 221 E. Lincoln Avenue, Ft. Collins, CO 80524, (970) 498-1500.
- Note 36: In-Situ Incorporated Method 1004-8-2009 Carbonaceous Biochemical Oxygen Demand (CBOD) Measurement by Optical Probe, 2009, available from In-Situ Incorporated, 221 E. Lincoln Avenue, Ft. Collins, CO 80524, (970) 498-1500.
- Note 37: EPA Method 200.5 Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma – Atomic Emission Spectrometry, Revision 4.2, October 2003, EPA/600/R-06/115
- Note 38: EPA Method 334.0 "Determination of Residual Chlorine in Drinking Water using an On-line Chlorine Analyzer," August 2009. EPA 815-B-09-013. [http://epa.gov/safewatermethods/analyticalmethods\\_ogwdw.html](http://epa.gov/safewatermethods/analyticalmethods_ogwdw.html).
- Note 39: EPA Method TO-3 Compendium of Methods for the Determination of Volatile Organic Compounds in Ambient Air (Second Edition, January 1999), EPA/625/R-96/010b. Available at <http://www.epa.gov/ttnamti1/files/ambient/airtox/to-3.pdf>
- Note 40: Method OIA-1677, DW Available Cyanide by Flow Injection, Ligand Exchange, and Amperometry, January, 2004. Available from: ALPKEM, A Division of OI Analytical, P.O. Box 9010, College Station, TX 77842-9010
- Note 41: Cryptosporidium in Water by Filtration/IMS/FA 60(ambient water), EPA-821-R-05-001, December 2005, US EPA,

available at [http://water.epa.gov/scitech/methods/cwa/methods\\_index.cfm](http://water.epa.gov/scitech/methods/cwa/methods_index.cfm)

Note 42: Cryptosporidium and Giardia in Water by Filtration/IMS/FA (ambient water), EPA-821-R-05-002, December 2005, US EPA, available at [http://water.epa.gov/scitech/methods/cwa/methods\\_index.cfm](http://water.epa.gov/scitech/methods/cwa/methods_index.cfm)

Note 43: Determination of Haloacetic Acids in Drinking Water by Ion Chromatography Electron Electrospray Ionization Tandem Mass Spectrometry, September, 2009. Available at [http://water.epa.gov/scitech/drinkingwater/labcert/analyticalmethods\\_expedited.cfm](http://water.epa.gov/scitech/drinkingwater/labcert/analyticalmethods_expedited.cfm)

Note 44: Cryptosporidium & Giardia in Water by Filtration/IMS/FA, 2012 available at <http://water.epa.gov/drink>

Note 45: Determination of Trace Elements in Ambient Waters by Inductively Coupled Plasma Mass Spectrometry available at: [http://water.epa.gov/scitech/methods/cwa/bioindicators/upload/2007\\_07\\_10\\_methods\\_method1638.pdf](http://water.epa.gov/scitech/methods/cwa/bioindicators/upload/2007_07_10_methods_method1638.pdf)

Note 46: EPA Performance Specification PS-12B "Analysis of Vapor Phase Mercury Emissions from Stationary Sources Using a Sorbent Trap Monitoring System". Available at <http://www.epa.gov/ttnemc01/perfspec/ps-12B.pdf>

## 2. Process for Director Approved Methods (A.A.C. R9-14-610.C.)

(This is a summary of the steps needed for approval, please refer to the rule cited for detailed instructions.)

**Note: For a request for an alternate method or method alteration approval, there is a \$50 fee payable to the Department of Health Services.**

### A. Request for approval of a different method or method alteration that is required by an EPA, ADEQ, the U.S. Food and Drug Administration or 9 A.A.C. 8.

1. Name, address, and telephone number of the licensee submitting the request.
2. Name, address, and telephone number of the laboratory for which approval is requested.
3. Identification of the parameter for which approval is requested.
4. Reference to the EPA, ADEQ, the U.S. Food and Drug Administration or 9 A.A.C. 8 that requires or authorizes the use of the method or method alteration for which approval is requested.

### B. Request for approval of a different method or method alteration that is **not** required by an EPA or ADEQ statute or rule.

1. Name, address, and telephone number of the licensee submitting the request.
2. Name, address, and telephone number of the laboratory for which approval is requested.
3. Identification of the parameter for which approval is requested.
4. Written justification for using the method or method alteration for which approval is requested, including the following:
  - a. A detailed description of the method or method alteration.
  - b. References to published or other studies confirming the general applicability of the method or method alteration to the parameter.
  - c. Reference to the EPA, ADEQ, the U.S. Food and Drug Administration or 9 A.A.C. 8 requirement to test the parameter.
  - d. Data that demonstrates the performance of the method or method alteration in terms of accuracy, precision, reliability, ruggedness, ease of use, and ability to achieve a detection limit appropriate to the proposed use of the method or method alteration.

The Department, before approving a method or method alteration that is not required or authorized by EPA or ADEQ statute or rule, may require that the method or method alteration be performed by a designated laboratory to verify that the method or method alteration complies with (C)(2)(d)(iv).